

1. Product Description

StenCare® 2EP 231 is a two-component, cold-applied, chemically curing, epoxy-based anchorage and coating material which can be used in sloped, vertical or reverse joints, with high mechanical resistance and adhesion, suitable for heavy traffic conditions. It is resistant to organic and inorganic acids and alkalis, oils, fuels, antifreeze, and many chemicals. **StenCare® 2EP 231** conforms to specification ASTM C 881/C 881M Type 3, Grade 3, Class B and Class C.

2. Uses

StenCare® 2EP 231 is designed for applications that are subject to movement during or after the application. It can be used for bonding aggregates to concrete surfaces where skid resistance is required, for doweling, and for anchoring or repair purposes on surfaces subject to traffic or movement. It can be used for repairs at sloped, vertical and downward-facing surfaces.

It has excellent adhesion to concrete, metal, wood and similar surfaces, providing a durable and stable repair. It is also used as filling or adhesive between two different surfaces. Due to its elasticity, it partially isolates movement of those two surfaces from each other.

3. Surface Preparation

The surfaces where **StenCare® 2EP 231** will be applied must be dry, free from contaminants such as oil, grease, sealant remains and loose particles. Dust and loose materials must be removed by pressurized air. Metal surfaces must be cleaned with a brush.

StenCare® 2EP 231 adheres excellently to many surfaces without primer; however, primer must be used in areas in contact with water and in applications on glass, plastic or rubber.

4. Application

It is recommended to condition the materials at 20-30 °C for one day before application. During application, surface and air temperature must be at least 10 °C and the temperature must not drop below 10 °C for 24 hours following the application. **StenCare® 2EP 231** is a two-component material.

Components A and B are packed as sets to be completely mixed. Entire component B is added into the container of component A and they are mixed by hand or with a low-speed drill until a homogeneous mixture is obtained. Mixed material must be used within the pot life, and thickened material must not be thinned and reused.

Applying the material with sufficient pressure and avoiding air entrapment will improve adhesion. For bonding skid resistant aggregates, the material should be laid on the surface and the aggregates should be spread on it without delay. For dowel bar, tie bar installation, or similar anchorage applications, all installation steps should be completed within pot life of the product.

If the entire **StenCare® 2EP 231** set will not be used, the contents must be weighed and partitioned before mixing, and the weight-based mixing ratio must be maintained; otherwise, material properties will be adversely affected.

Epoxy-based Flexible Repair and Coating Material (Non-Sagging Type)

Highlights

- Designed for overhead, vertical and sloped repairs
- 100% compatible with concrete
- Flexible with high mechanical strength
- Withstands harsh conditions
- Cures fast, does not disrupt traffic
- Long-lasting and easy to apply



5. Cleaning

Equipment used can be cleaned with **StenSolver EP** at the end of the job.

6. Safety

Applicators and supervisors must read the Material Safety Data Sheet (SDS) carefully and follow the instructions provided. Emptied packages must be handled in compliance with relevant regulations and laws. The application must be carried out by skilled workers under supervision of experts and the applicators must use all kinds of protective equipment required for the worksite and the task such as goggles, mask and gloves.

7. Storage

It must be stored away from open flame and sources of ignition. Materials should be stored at 5-30 °C in a temperature-controlled environment, protected from daylight and moisture. Under these conditions, the material will retain its properties until the expiration date in unopened packages.

Low temperatures may cause crystallization of the product; in this case, the product can be used after heating and homogenizing at +20 °C. The product must be stirred thoroughly before use after prolonged storage.

8. Disclaimer

This document is provided for general information and reflects **Stenkim®**'s laboratory data and field experience at the time of publication. **Stenkim®** reserves the right to revise this information at any time without notice.

Stenkim® warrants that its products conform to the stated specifications on delivery. The buyer is responsible for determining the product's suitability for the intended application and for all conditions of transport, storage, handling, and use. **Stenkim®** accepts no liability for results obtained under conditions outside its control. **Stenkim®**'s liability under this warranty is limited to replacement of non-conforming product and excludes any consequential or indirect damages.



9. Technical Data

Property	Method	Result
Base Polymer		Epoxy
Solid Content		100
Color		Gray
Density		1.60 ± 0.05 g/cm ³
Consistency	ASTM C 881	2 mm
Hardness (Shore)	ASTM D 2240	D45-55
Adhesion Strength	ASTM C 882	17 MPa
Compressive Modulus	ASTM D 695	720 MPa
Thermal Compatibility	ASTM C 884	Pass
Elongation at Break	ASTM D 638	>45%
Pot Life @15 °C	ASTM C 881	45 minutes
Pot Life @23 °C	ASTM C 881	30 minutes
Time to open to traffic @20 °C		24 hours
Cure Time for Chemical Resistance		24 hours
Shelf Life		1 Year
Packaging		5 kg sets

Stenkim® reserves the right to make changes to the values in this table at any time.

